or Loops Range

Python - For Loops

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For Loops

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Iteration

For loops allow us to iterate over each element of a set or sequence

Syntax:

```
for <var> in <set>:
    do ...
    do ...
```

For Loops

Range

```
Breaks
```

or Loops

Range

Iteration

Python has a built-in function, range, which allows us to generate a list containing the numbers specified in the range.

range(0, 10)

Range in Loops

Python - For Loops

or Loops

Range

Breaks

```
for number in range(0, 10):
    print number
```

```
dict = { 'NN' : 5, 'PRP' : 13, 'VBZ' : 4}
for key in dict:
    print key, 'occurred', dict[key], 'times.'
```

```
dict = {'NN' : 5, 'PRP' : 13, 'VBZ' : 4}
for key, val in dict.items():
    print key, 'occurred', val , 'times.'
```

Iteration

Caution: The loop will make sure that you will look at every key, but not in which order.

break: stops the execution of the loop, independent of the test

```
for x in range(0,1000):
    if (x % 7) == 0:
        print 'first_number_divisible_by_7:
        break
```

continue: skip the rest of the loop body, but continue with the loop

```
for x in range(0,1000):
    if (x % 7) == 0:
        print x
    else:
        continue
```

For Loops

Breaks



For Loops

Breaks

Iteration

else can follow a loop, then it is executed in case the loop is NOT exited by break.

```
for x in range(0,1000):
    if (x % 7) == 0:
        print x
        break
else:
    print 'not_found'
```